



## Scott County Courtrooms 2 & 5 AV Upgrade (Design Development Narrative)

### Audio System

The audio system will employ a compliment of microphones: (8) gooseneck microphones mounted on desktops, (1) boundary microphone (for side bar conversations), (2) new wireless Lavalier microphones, (2) existing wireless hand-held microphones, and (3) pendant microphones suspended above the Jury. Sound masking will be engaged during side bar conversations.

The microphones will have unique paths routed to 14 loudspeaker zones for voice lift, video presentation, and multi-channel digital recording of court proceedings via USB. The audio system will include a Biamp Digital Signal Processor (DSP) to manage complicated audio routing and processing. The DSP's profile will include a gain sharing automatic microphone mixer and signal delay matrix to enable precise time-of-flight signal synchronization for each of the unique signal paths from microphone to loudspeaker zone.

Provision will be made, via teleconference, for a remotely located interpreter to assist a non-English speaking court participant.

The existing wireless infra-red Hearing Assistance System will be retained to meet ADA requirements for support of hearing-impaired court participants.

### Touch Panel Control System

A Crestron 7" touch panel will provide the operational interface for control of the Audio System, Video Presentation System, and the Video Call System.

### Video Presentation System

The Video Presentation System will provide for the display of evidence presented in the following video formats: VGA, DisplayPort, and HDMI. An 8x8 video matrix HDMI switcher will route video sources originating at the bench, podiums, and attorney tables. A wireless collaboration system will be provided to accommodate mobile presentation of evidence via USB dongle. A high-resolution document camera on a portable AV cart will capture video images and display them via HDMI connectivity.

An 85" class video monitor will be wall mounted behind the clerk's desk opposite the Jury. A 75" Class monitor will be provided to serve as a confidence monitor for the judge during video call sessions and a 55" class monitor will be located in the gallery to cover the area where the 85" monitor cannot be clearly seen. A wall mounted loudspeaker will be located above the 85" monitor to serve as an audio anchor for program playback. A 22" touch panel/ video monitor and Extron annotation system will be provided at the Witness location for markup of video evidence. Desktop monitors will be provided on the bench and at the attorneys' tables.

### Video Call System

Popular Video Meeting Software will be supported by Two (2) robotic cameras and a CCU (Camera control unit) which is connected via USB to a dedicated (OFE) PC which is on the State's network.